CAVITATION DAMAGE IN PUMP REPAIRED

ID: 837

Industry:	*Power*	Customer Location:	*Power Plant / NE Oklahoma*
Application:	*CEP-Centrifugal Pumps*	Application Date:	*March 2007*
Substrate:	*Cast carbon steel (5% Nickel)*		
Products:	** Belzona® 1221 (Super E-Metal) ,*		
	** Belzona® 2141 (ACR Elastomer) ,*		

Problem

Severe cavitation erosion above and below wear ring. limited time to restore pump.




Photograph Descriptions

* Extent of cavitation damage to suction bell, above and below wear ring ,
* Repairing damage back to original dimensions ,
* Repaired surface rebated, taped and half coated with Belzona® 2141 ,
* Finished job ready for bushing installation then into service ,

Application Situation

Suction bell of pump found to be cavitated during 1 week outage.

Application Method

Application carried out in accordance with Belzona Know-How System Leaflets CEP-3 and CEP-5. Rebate grooves were cut to terminate coating.

Belzona Facts

Belzona repair and protective coating combined with 1-week turnaround saved approx. $15,000 versus purchase of new unit with much longer lead time. Improved resistance to cavitation anticipated.